

Fig. 1

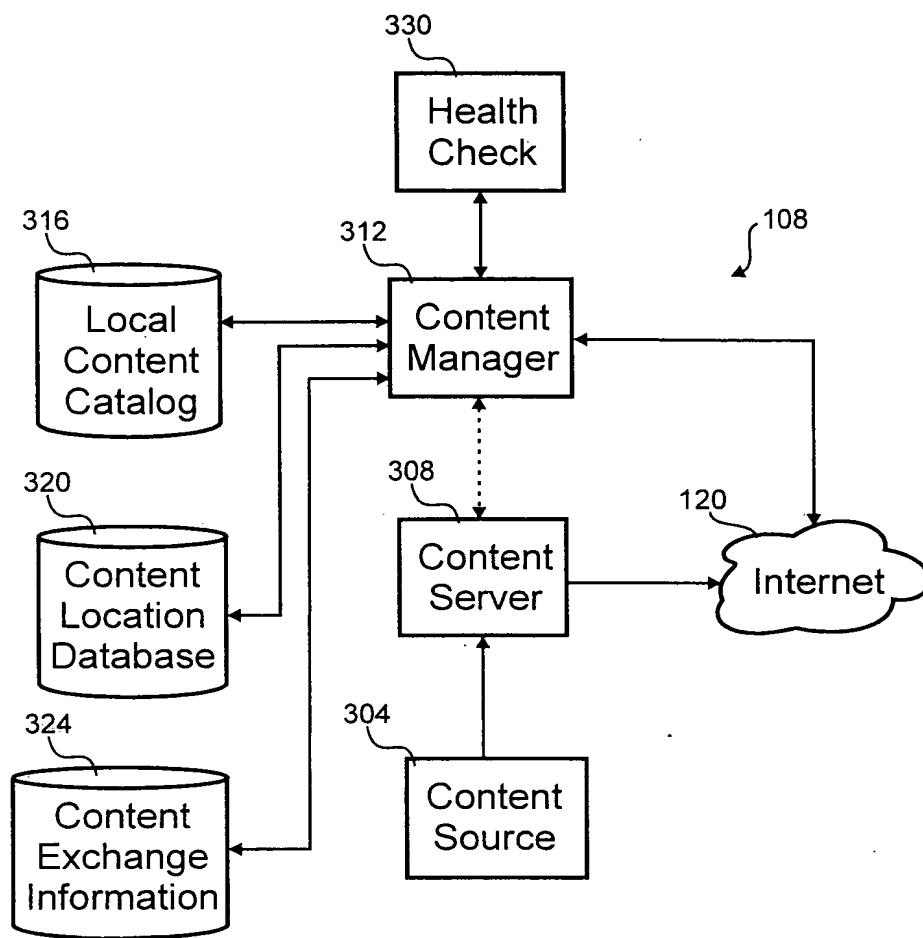


Fig. 3A

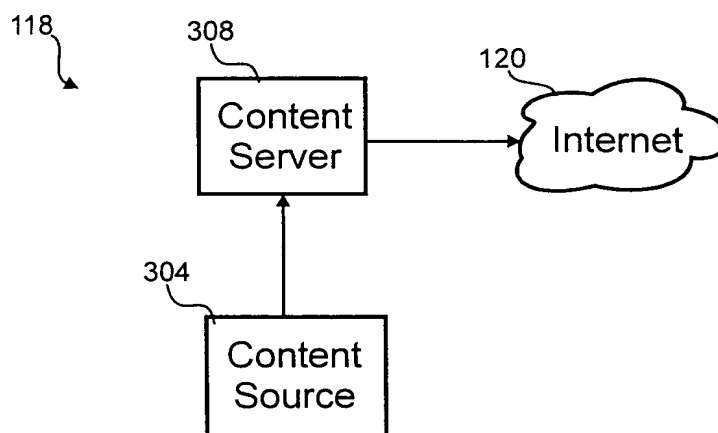


Fig. 3B

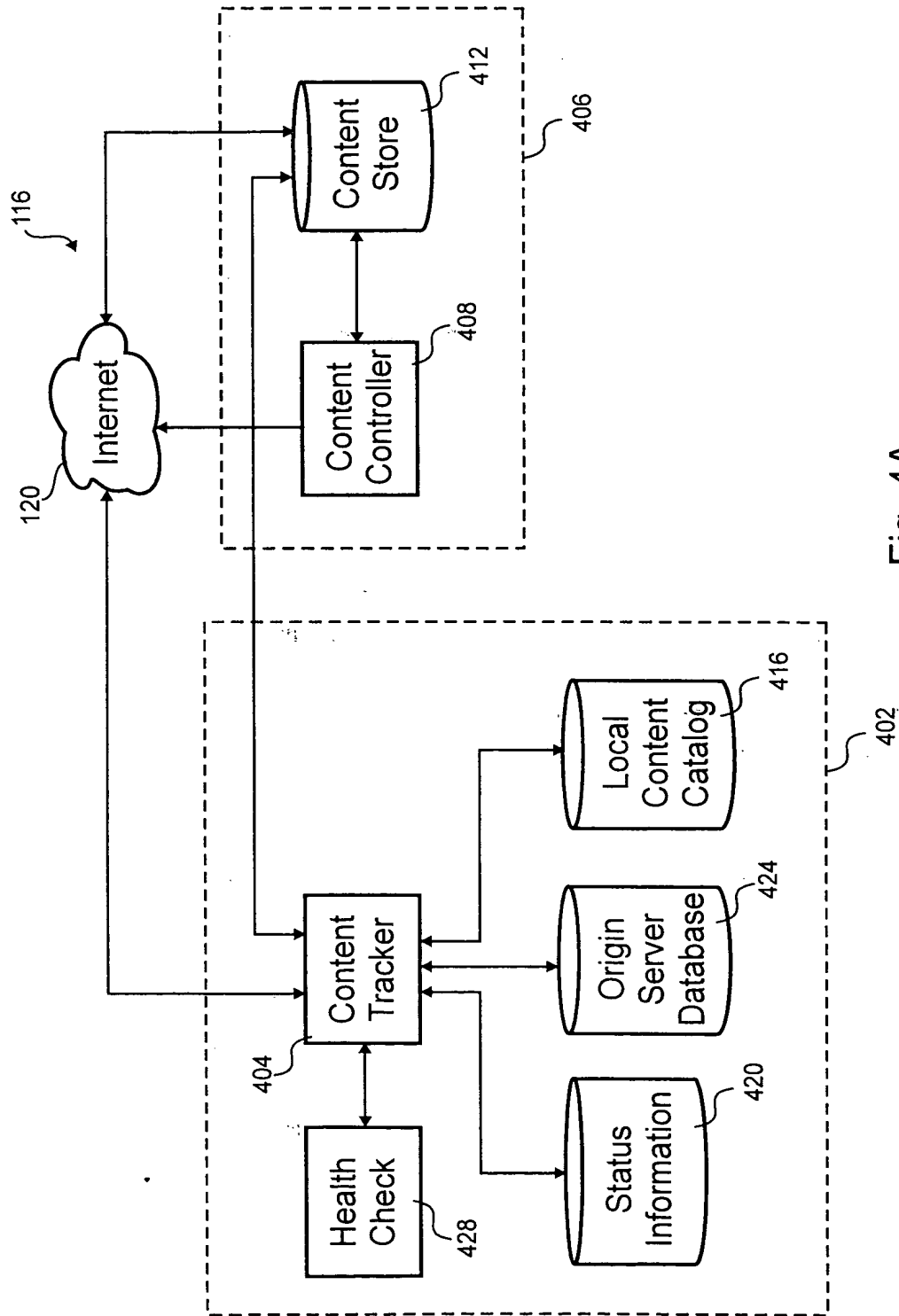


Fig. 4A

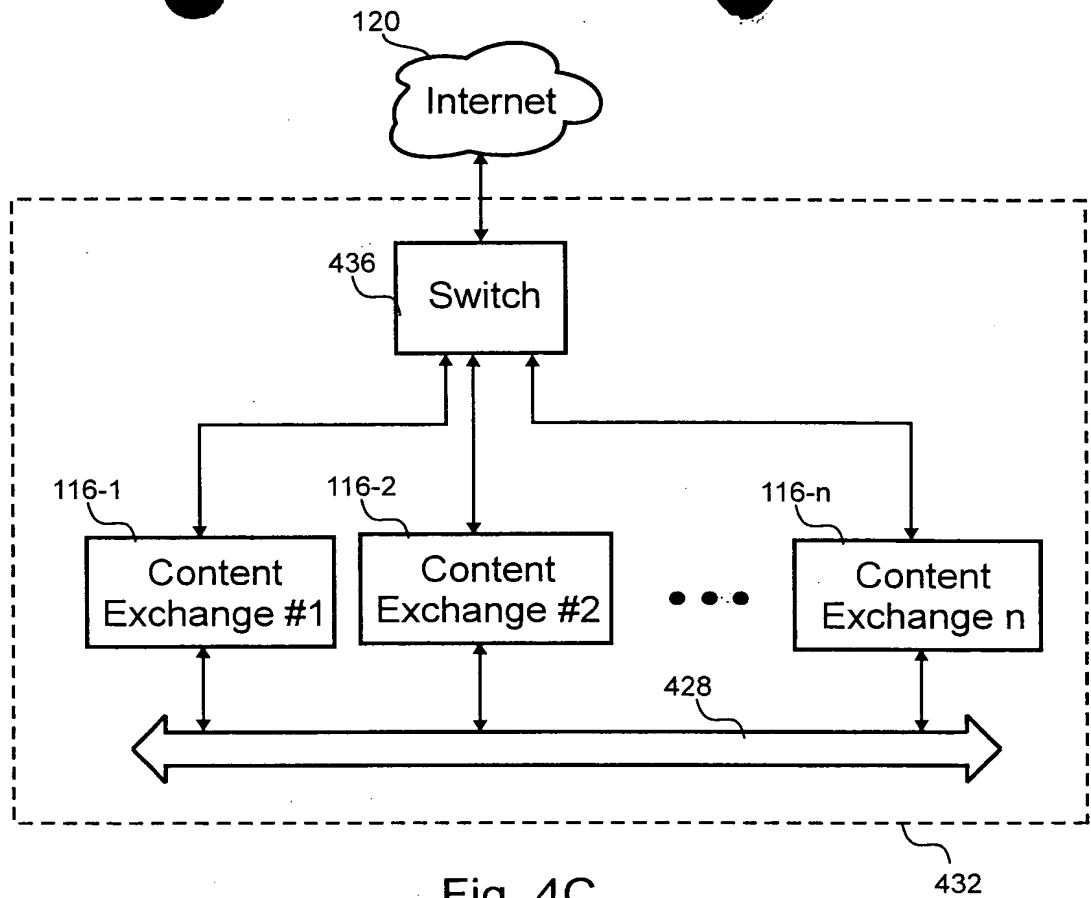


Fig. 4C

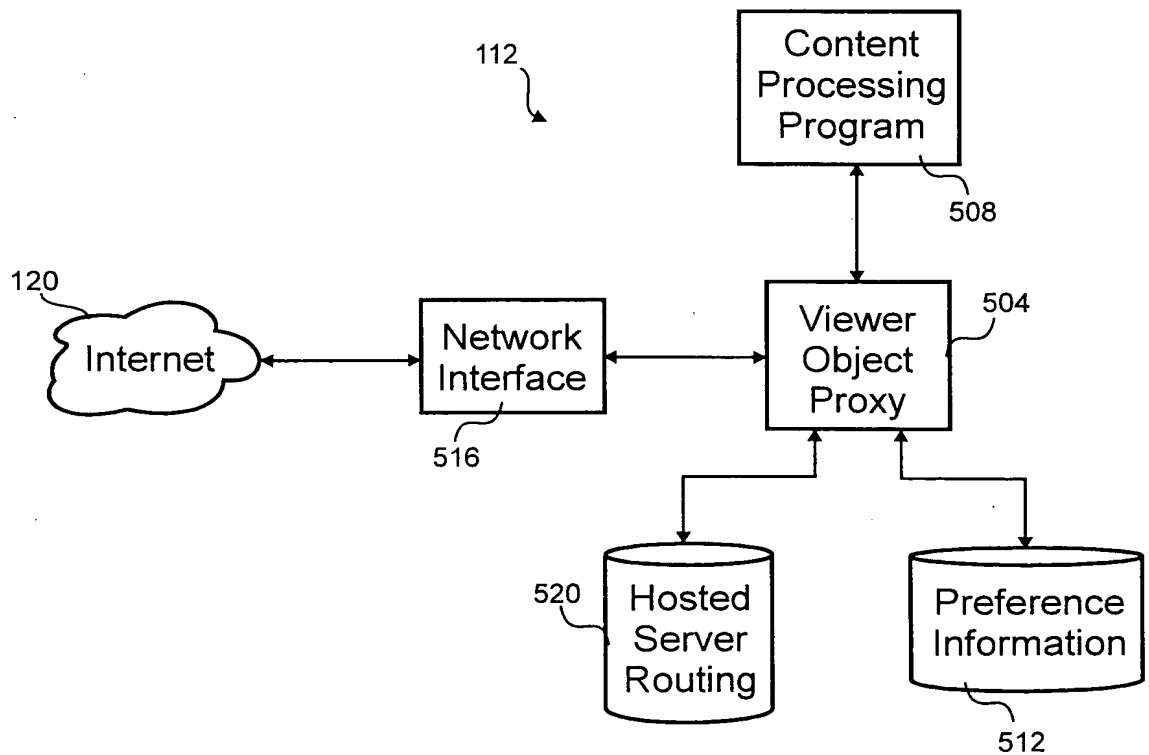


Fig. 5

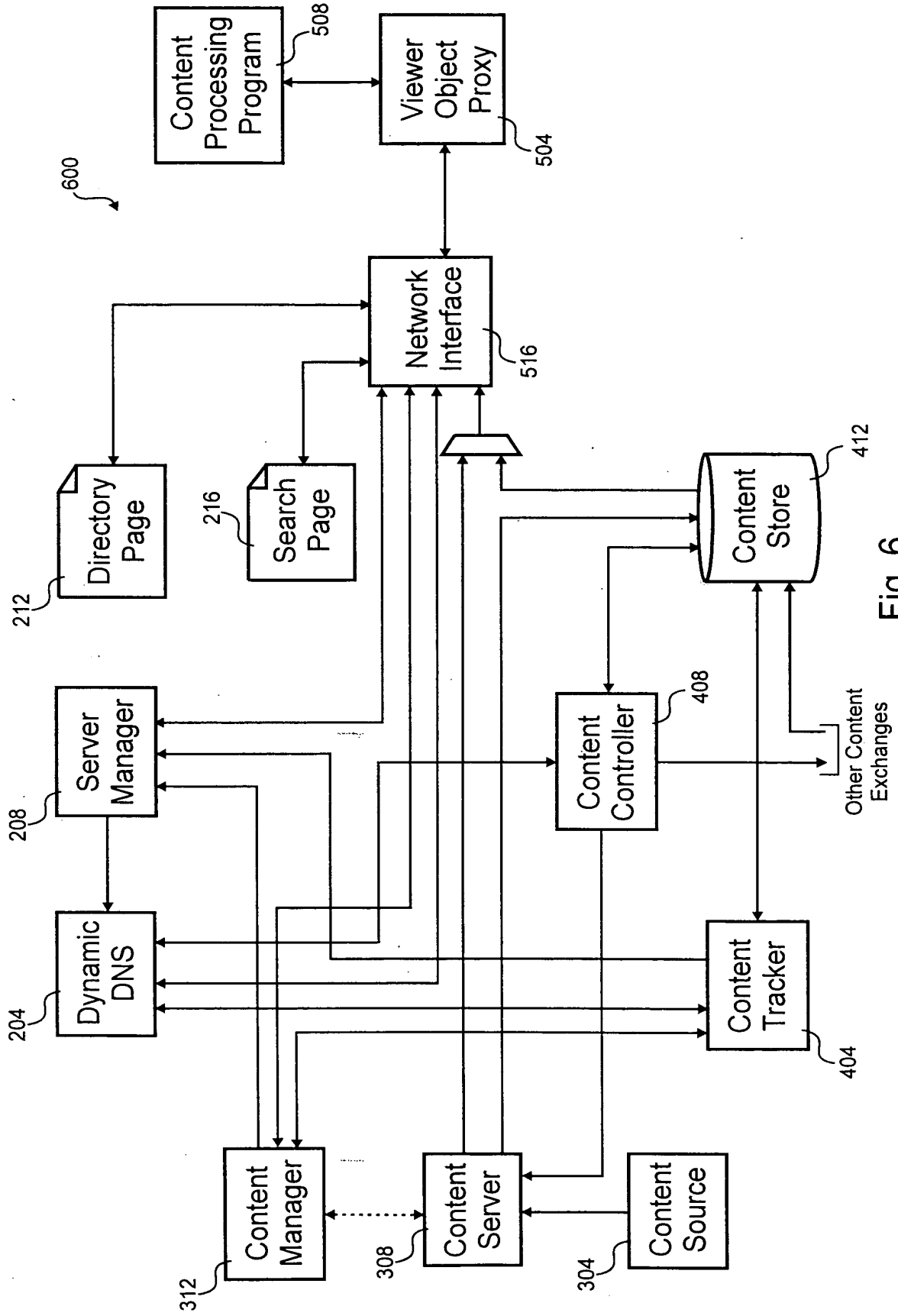


Fig. 6

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graph TD; 704[User Directs Browser to the Search Page] --> 708[User Queries Search Engine]; 708 --> 712[Server Manager Queries Server Database for Content Object]; 712 --> 716[Present Links to Content Managers]; 716 --> 720[User Clicks Link for Content Object]; 720 --> 724[Browser Object Proxy Sends Preference Information to Content Manager]; 724 --> 728[Content Manager Selects Source for Content Object]; 728 --> 732[Redirect Browser to Selected Source of Content Object]; 732 --> 736{Content Exchange or Content Server?}; 736 -- "Content Exchange" --> A((A)); 736 -- "Content Server" --> 740[Download Object from Content Server to Client Computer];
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Flowchart 700 illustrates a method for content exchange or content server selection. The process begins with a user directing a browser to a search page (704). The user then queries the search engine (708). The server manager queries the server database for a content object (712). The system presents links to content managers (716). The user clicks a link for the content object (720). The browser object proxy sends preference information to the content manager (724). The content manager selects a source for the content object (728). The browser is redirected to the selected source of the content object (732). A decision is made: Content Exchange or Content Server? (736). If Content Exchange, the process proceeds to step A. If Content Server, the process proceeds to step 740: Download Object from Content Server to Client Computer.

Fig. 7A

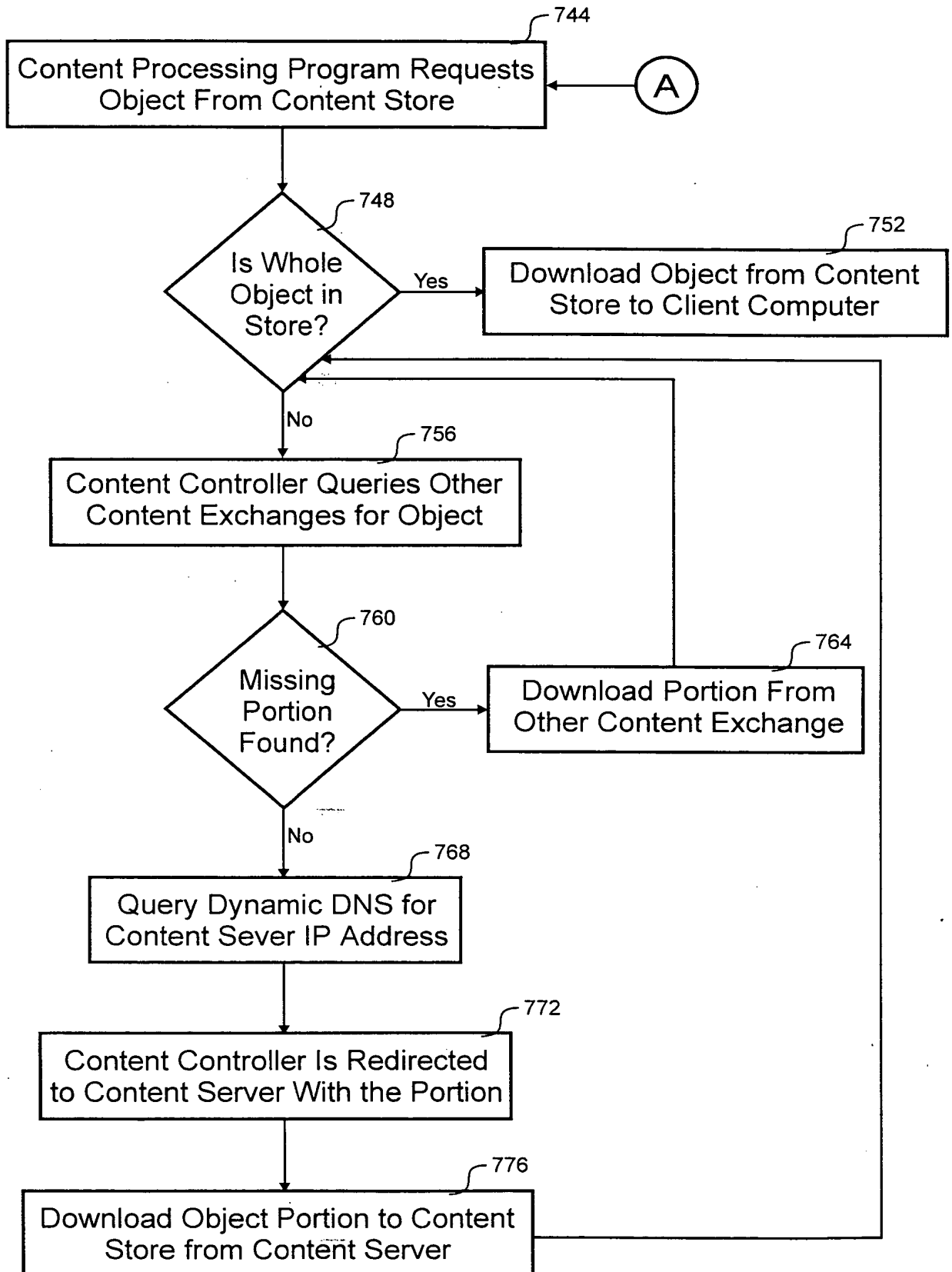


Fig. 7B

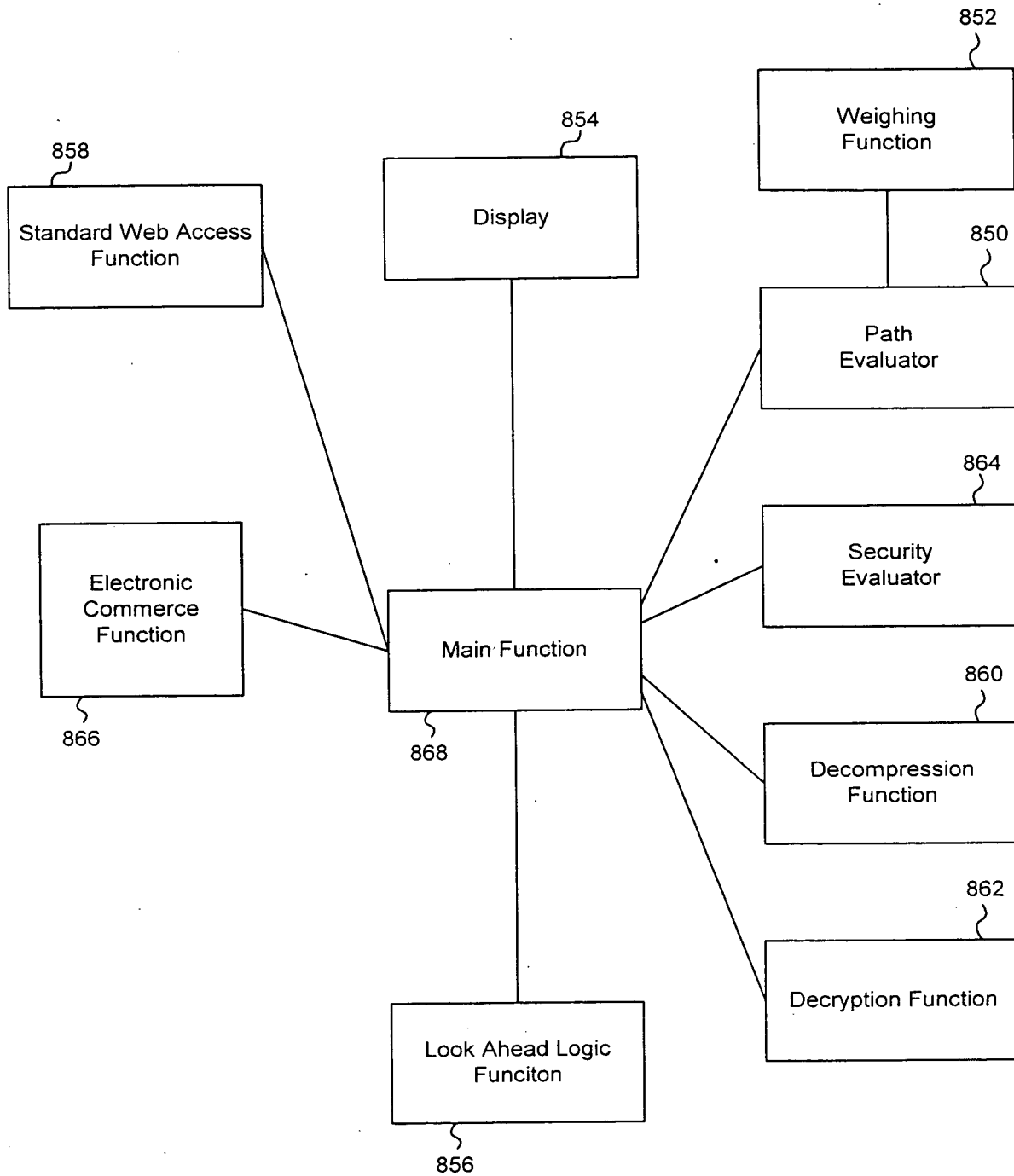


FIG. 8

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graph TD; 980[STARTUP] --> 982[SETUP]; 982 --> 984[Information Request and Receive]; 994[User Request] --> 984; 996[Time Interval] --> 984; 984 --> 986[Path QOS Evaluation]; 986 --> 988[Another Path]; 988 --> 990[Prioritize]; 990 --> 992[Display Results]; 900((900)) -.-> 984;
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FIG. 9

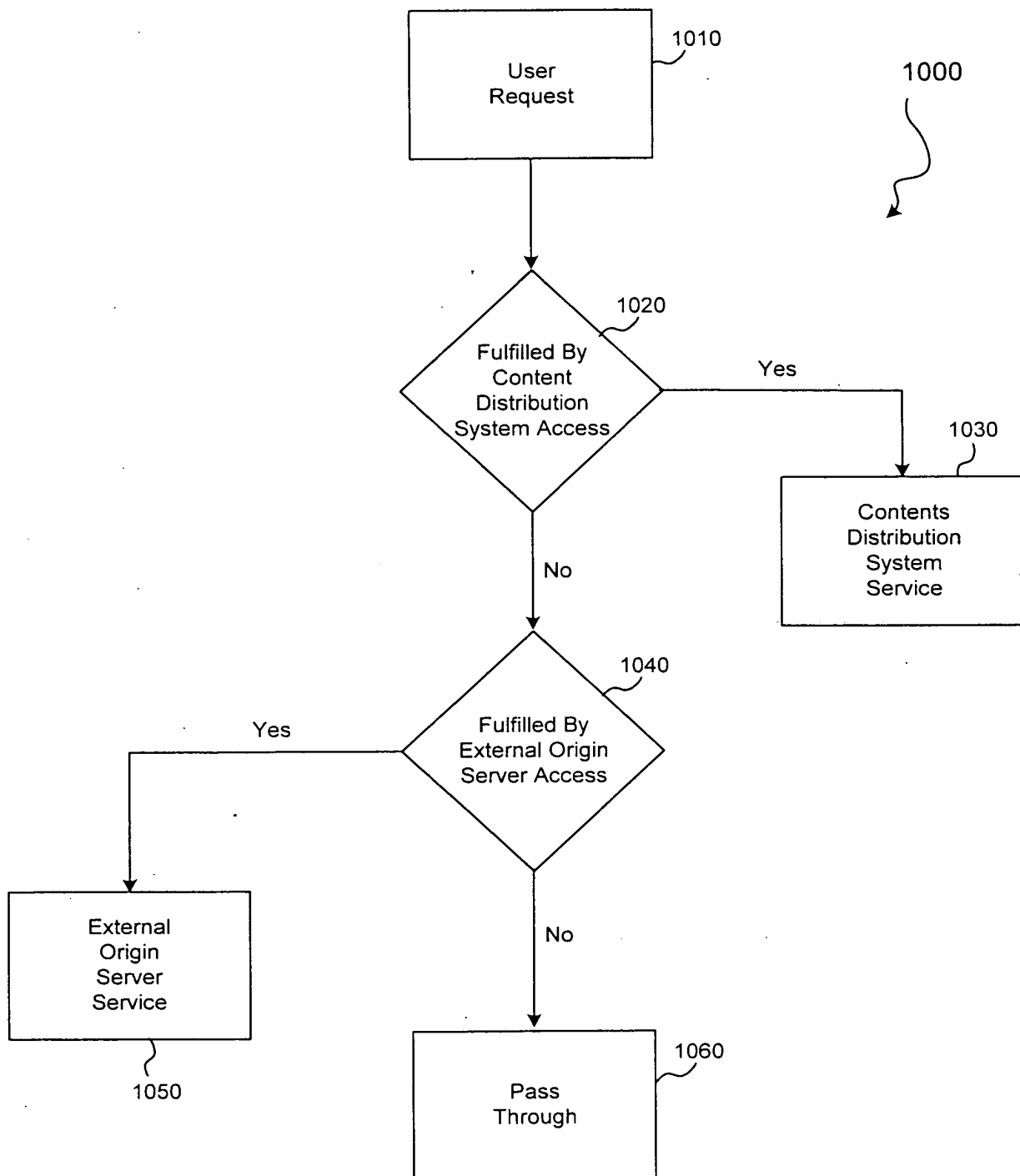


FIG. 10

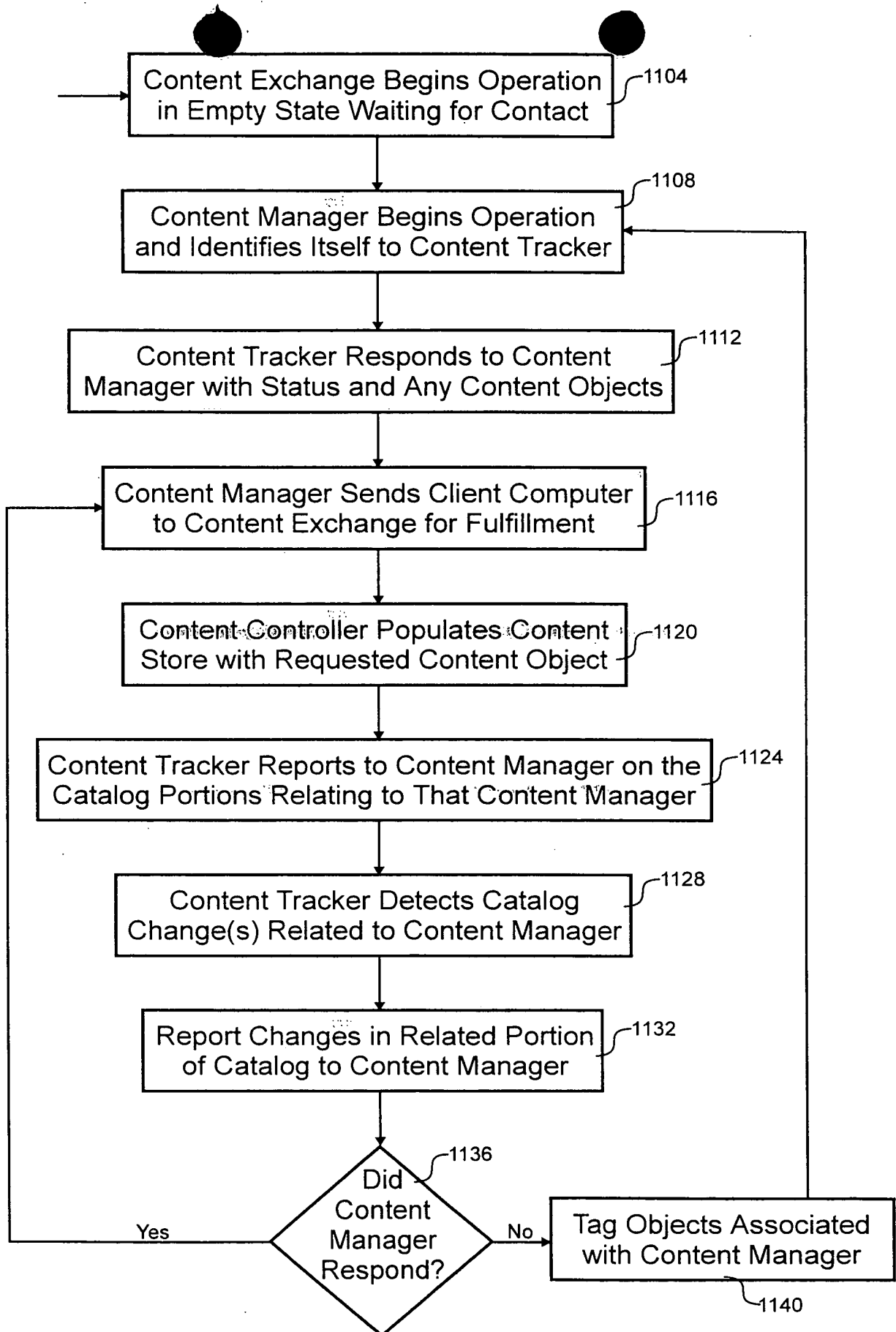


Fig. 11


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graph TD
    1304[Origin Server Begins Operation and Waits for Configuration] --> 1308[Administrator Configures Content Manager to Publish Content Objects on Content Server]
    1308 --> 1312[Origin Server Contacts Server Manager to Update Subscriber Database]
    1312 --> 1316[Content Manager Contacts the Server Manager to Publish Content Catalog]
    1316 --> 1320[Server Manager Creates Entries in Server Database for New Content Objects]
    1320 --> 1324[Server Manager Sends Interval Time to Content Manager]
    1324 --> 1328{Wait for Interval Time to Expire}
    1328 -- Wait --> 1328
    1328 -- Timeout --> 1332[Update Local Content Catalog with Any Changes]
    1332 --> 1316

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Fig. 13

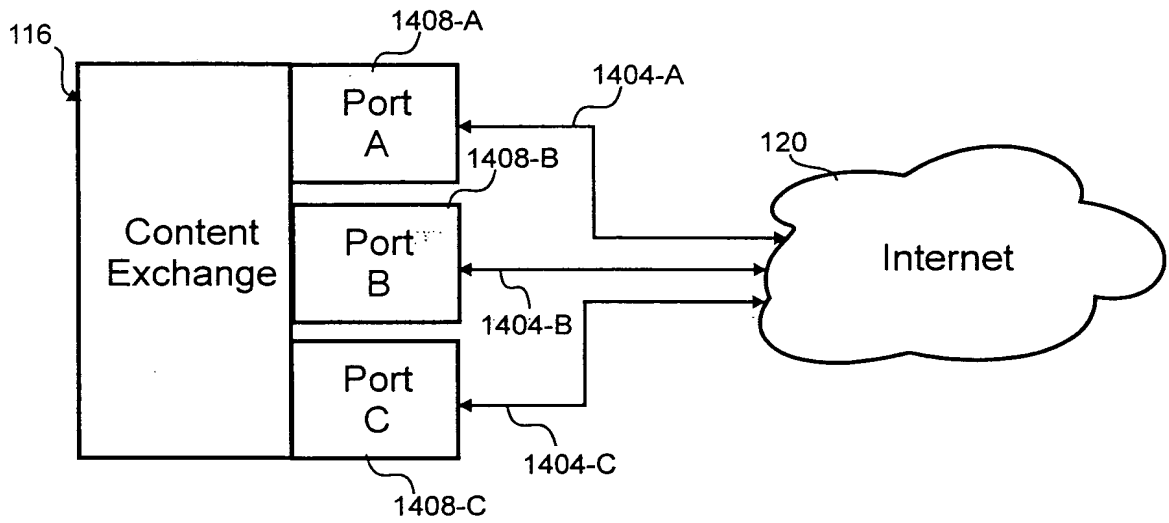


Fig. 14

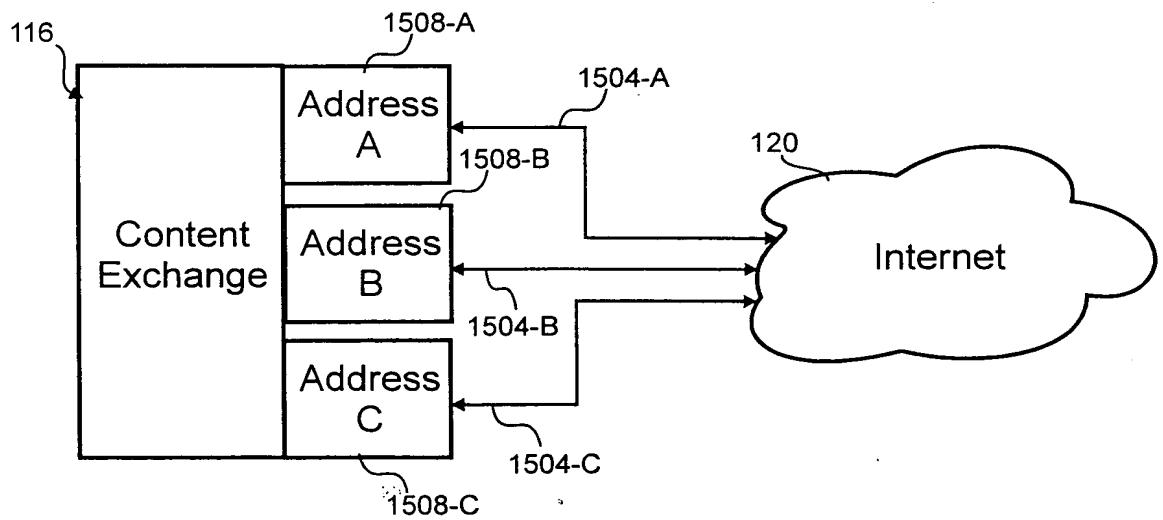


Fig. 15

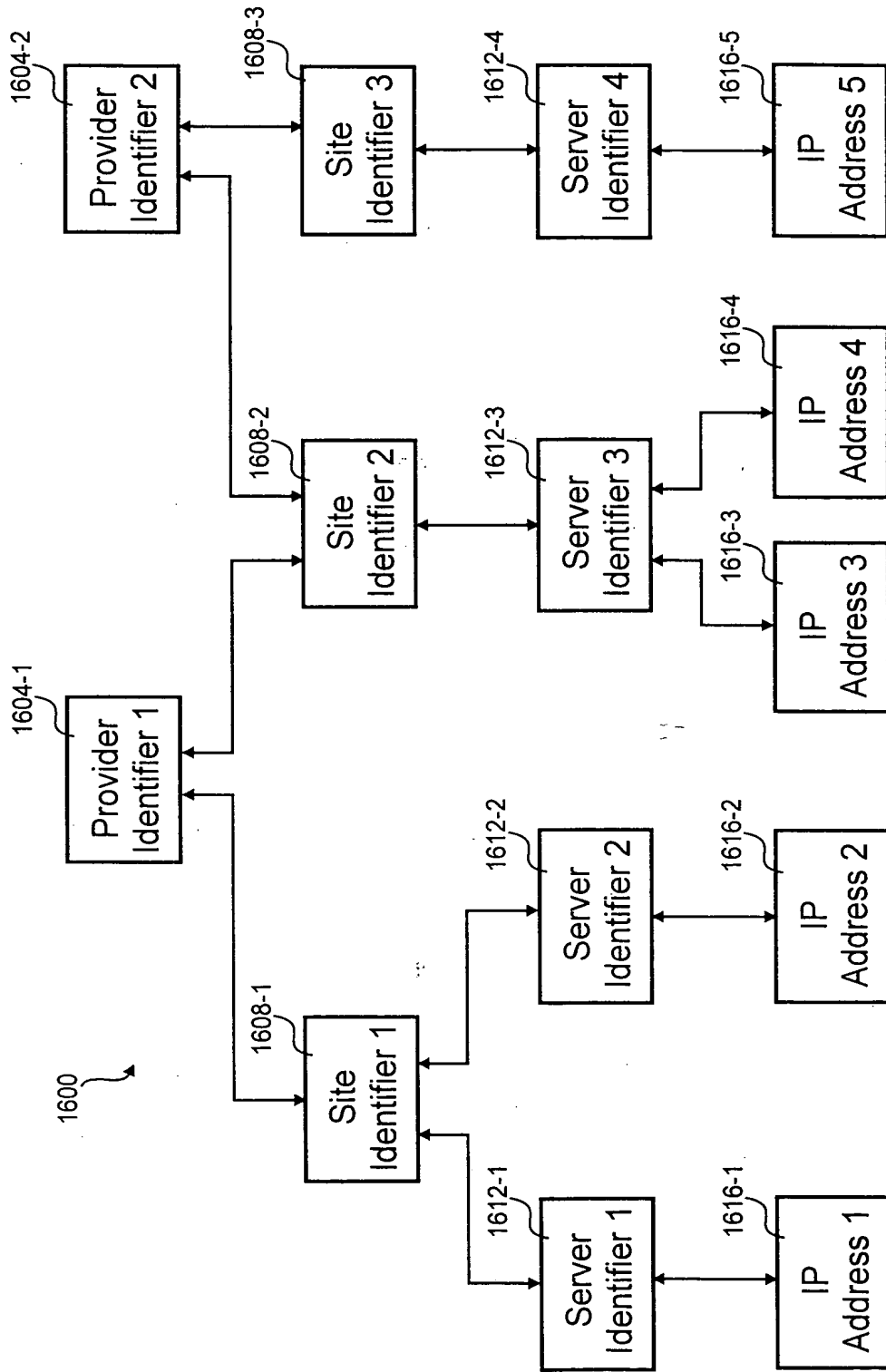


Fig. 16

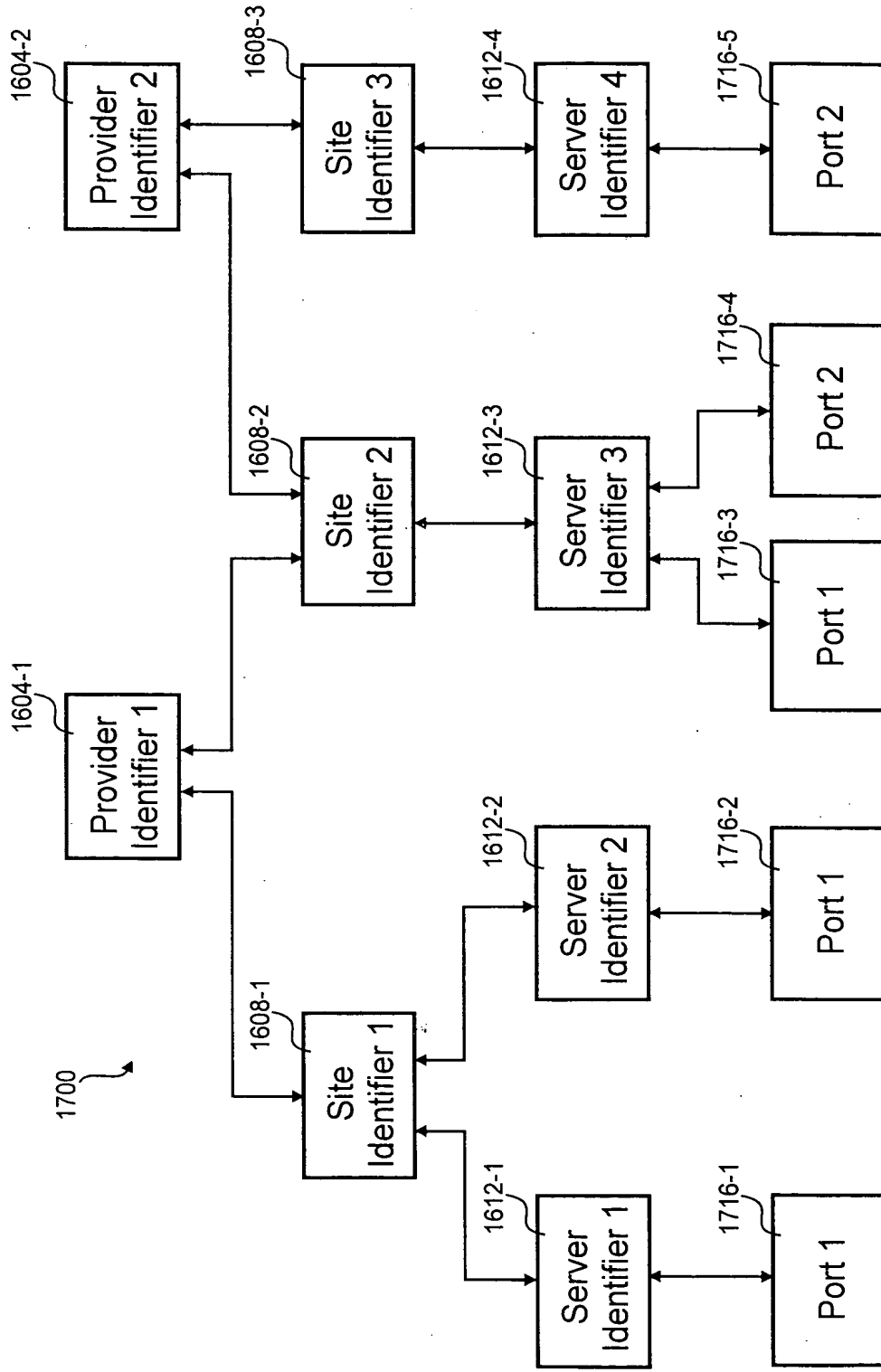


Fig. 17